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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,493	04/25/2005	Hans-Christoph Magel	R.303666	4365
2119 7590 04/16/2007 RONALD E. GREIGG GREIGG & GREIGG P.L.L.C. 1423 POWHATAN STREET, UNIT ONE ALEXANDRIA, VA 22314			EXAMINER	
			HWU, DAVIS D	
			ART UNIT	PAPER NUMBER
			3752	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/16/2007	PAPER	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
	10/532,493	MAGEL, HANS-CHRISTOPH				
Office Action Summary	Examiner	Art Unit				
	Davis D. Hwu	3752				
The MAILING DATE of this communicat Period for Reply	tion appears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL  - Extensions of time may be available under the provisions of 3i after SIX (6) MONTHS from the mailing date of this communic.  - If NO period for reply is specified above, the maximum statuto.  - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUN 7 CFR 1.136(a). In no event, however, may a aation.  ny period will apply and will expire SIX (6) MO by statute, cause the application to become A	ICA I ION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status		·				
1)⊠ Responsive to communication(s) filed of	on <u>25 A<i>pril</i> 2005</u> .					
	· ·					
3) Since this application is in condition for	to the marita is					
Disposition of Claims						
4) ⊠ Claim(s) <u>15-28</u> is/are pending in the ap 4a) Of the above claim(s) is/are v 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>15,16 and 18-23</u> is/are rejecte 7) ⊠ Claim(s) <u>17 and 24-28</u> is/are objected t 8) □ Claim(s) are subject to restrictio	withdrawn from consideration. ed.					
Application Papers						
9) ☐ The specification is objected to by the E						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including th 11) The oath or declaration is objected to b						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:  1. Certified copies of the priority do  2. Certified copies of the priority do  3. Copies of the certified copies of application from the International	ocuments have been received. Ocuments have been received in the priority documents have been all Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachment(s)	•					
1) Notice of References Cited (PTO-892)	v Summary (PTO-413)					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date 4/25/05.</li> </ul>		o(s)/Mail Date f Informal Patent Application				

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 15, 16, 18, 19, 21-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Klugl et al.

Klugl et al. shows a fuel injection system comprising a fuel injection nozzle which can be supplied with fuel by a high pressure fuel source 9, the nozzle having a movable nozzle piston 6 for opening and closing injection openings 8, an injection nozzle high pressure chamber 34, and an injection nozzle control chamber (see attached Figure 1), a pressure boosting device connected between the fuel injection nozzle and the fuel source 9, the pressure boosting device having a movable pressure booster piston 23, a pressure booster work chamber 22 and a pressure booster high pressure chamber 29, and a filling connection 31 which is open for filling the chamber 29 as recited, wherein

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the connection 31 is closed by the nozzle piston 6 when the fuel injection nozzle is open as recited in claim 16.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Klugl et al. in view of Boecking.

Boecking teaches a fuel injection system comprising a pressure booster high pressure chamber 3 having a filling connection 39 including a throttle to provide adequate pressure build up in the chamber. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Klugl et al. by providing a throttle in the filling connection as taught by Boecking to provide adequate pressure build up in the chamber.

# Allowable Subject Matter

- 5. Claims 17 and 24-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis D. Hwu whose telephone number is 571-272-4904. The examiner can normally be reached on 8:00-4:30. If attempts to reach the

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examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see

